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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/080,547

02/25/2002

Jae-Seok Jeong

P56649

8267

7590

01/12/2004

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EXAMINER

KEANEY, ELIZABETH MARIE

ART UNIT

PAPER NUMBER

2882

DATE MAILED: 01/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/080,547	JEONG ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Elizabeth Gemmell	2882	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 September 2003.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-6 and 8-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,3-6,8-17 and 20-22 is/are allowed.
- 6) ☒ Claim(s) 18 and 19 is/are rejected.
- 7) ☒ Claim(s) 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All   b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

### **DETAILED ACTION**

Receipt is acknowledged of the amendment filed 22 September 2003.

#### ***Claim Objections***

Claim 20 is objected to because of the following informalities:

- It is unclear to the examiner whether the width of the first partition portion is greater than both the second and third portions or if the first partition is greater than the second partition portion and the second partition portion is greater than the third partition portion. As best understood by the examiner, it has been interpreted as the first partition portion is greater than both the second and third partition portions.

Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

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directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hashimoto et al. (US Patent 6,603,263; hereinafter Hashimoto).

Re claim 18: Hashimoto discloses, in figures 6 and 7 and throughout the disclosure, a plasma display panel comprising:

- a plate comprising:
  - a substrate (102);
  - a dielectric layer (106) formed on a top surface of the substrate;
  - and
  - partitions (10A) spaced a predetermined distance apart from each other and formed in a snaking shape (column 21, line 6) in a common direction to form a plurality of channels between adjacent partitions (column 21, line 10), the channels including main discharge spaces (C) and auxiliary discharge spaces (NC) alternately arranged and connected to each other through the channels;
  - wherein the partitions comprise first partition portions forming the main discharge spaces, second partition portions forming the auxiliary discharge spaces, and third partition portions connecting the first and second partition portions (see figure 6);

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- a common electrode (Xi) and a sustaining electrode (Yi), wherein the common and sustaining electrode is formed on the plate; and
  - wherein the common and sustaining electrode are arranged on the third partition portions (see figure 6), whereby to increase an opening ration of the main discharge spaces.

Re claim 19: Hashimoto discloses, in figure 6 and throughout the disclosure, auxiliary electrodes (Xti,Yti) positioned on the main discharge spaces and extending from opposing sides of the common and sustaining electrodes, whereby to reduce a discharge state voltage and extend a relative discharge area.

### ***Response to Arguments***

Applicant's arguments filed 22 September 2003 have been fully considered but they are not persuasive. The grounds of the rejection for the newly added claims 18 and 19 are shown above.

### ***Allowable Subject Matter***

Claims 1-17 and 20-22 are allowable over the prior art.

The following is a statement of reasons for the indication of allowable subject matter: The best prior art of record discloses a plasma display panel having partitions formed in a snaking shape. However, the prior art fails to teach or fairly suggest the

width of the first partition portion forming the main discharge spaces for the red and green phosphor coating is greater than the width of the first partition portion forming the main discharge space for the blue phosphor, as claimed in claim 1. Claims 3 and 17 are allowable by virtue of their dependency.

The best prior art of record also discloses a plasma display panel having partitions formed in either a snaking shape or a striped pattern. However, the prior art fails to teach or fairly suggest the use of the combination of the two patterns within one display panel, as claimed in claims 4 and 11. Claims 5,6,8-10 and 12-16 are allowable by virtue of their dependency.

The best prior art of record further discloses a plasma display panel having partitions formed in a snaking shape. However, the prior art fails to teach or fairly suggest the width of the first portion of the partition being greater than the width of the second and third portions of the partitions, as claimed in claim 20. Claims 21 and 22 are allowable by virtue of their dependency.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US Patent 6,376,986 discloses a snaking partition pattern wherein the sustaining and common electrode are positioned on the third portion of the partition.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth Gemmell whose telephone number is (703) 305-1937. The examiner can normally be reached on Monday-Thursday 6:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (703) 308-4858. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



EDWARD J. GLICK  
SUPERVISORY PATENT EXAMINER